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NMR study of pore connectivity

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Abstract

A new method of studying pore connectivity in meso- and macroporous materials is proposed on the base of dependence of melting temperature of pore liquid on the pore size. The NMR relaxation has been used to control the state of pore liquid (adsorbate) and the pore connectivity has been determined using the data on self-diffusion of cyclohexane molecules in the pores of anhydrite cement.